Please add the following new claims:

An endovascular support device for implantation in a vessel within the human body, the 15. vessel having an inner vessel surface, the endovascular support device comprising:

an expandable, generally cylindrical body portion defining a luminal surface and a vascular surface:

wherein the vascular surface includes a macroscopic surface modification that engages the inner vessel surface to yield an increased frictional force between the vascular surface of the endovascular support device and the inner surface of the vessel, the macroscopic surface modification comprising a structural alteration of the vascular surface of the tubular body portion.

16. An endovascular support device for implantation in a vessel within the human body, the vessel having an inner vessel surface, the endovascular support device comprising:

an expandable, generally cylindrical body portion made of a first material defining a luminal surface and a vascular surface;

the vascular surface including a macroscopic surface modification that engages the inner vessel surface to yield an increased frictional force between the vascular surface of the endovascular support device and the inner surface of the vessel;

wherein the macroscopic surface modification is achieved without the addition of a second material to the vascular surface of the device.

An expandable generally cylindrical stent for implantation in a vessel within the human 17. body, the stent having a delivery configuration for intraluminal delivery to a treatment site in the vessel and an expanded configuration for implantation at said treatment site in the vessel, the stent comprising:

an inside surface and an outside surface, the outside surface having a macroscopic modification comprising a multiplicity of axially-oriented ridges,

wherein the delivery configuration of the stent, the multiplicity of axially-oriented ridges do not substantially affect intraluminal delivery of the stent to the treatment site, and wherein the expanded configuration, the multiplicity of axially-oriented ridges engages the vessel so as to

reduce the risk of migration of the implanted stent.

- 18. The stent as defined in claim 17 wherein the surface modification comprises a multiplicity of cross-axial ridges.
- 19. The stent as defined in claim 17 wherein the surface modification comprises a multiplicity of crisscross ridges.
- 20. An expandable generally cylindrical coronary stent for implantation in a vessel within the coronary vasculature, the stent comprising:

an inside surface and an outside surface, the outside surface comprising a macroscopic modification that engages the vessel surface, the macroscopic surface modification comprising a multiplicity of axially-oriented ridges.

- 21. The stent as defined in claim 20 wherein the macroscopic surface modification comprises a multiplicity of cross-axial ridges.
- 22. The stent as defined in claim 21 wherein the macroscopic surface modification comprises a multiplicity of crisscross ridges.

Respectfully Submitted,

Michael J. Jaro Registration No. 34,472 Attorney for Applicants Medtronic AVE, Inc. 3576 Unocal Place Santa Rosa, CA 95403

Tel. No. (707) 566-1888

Fax No. (707) 543-5420